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	27045 7590 12/16/2009 ERICSSON INC.			EXAMINER	
6300 LEGACY DRIVE			HARLEY, JASON A		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/596,513	MELSEN, TORBEN			
Office Action Summary	Examiner	Art Unit			
	Jason Harley	2468			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING DOWN THE MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period vortice and the statut of the second statut of the second statut of the maximum statut of the second se	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	Lely filed the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
 Responsive to communication(s) filed on <u>20 Description</u> This action is FINAL. 2b) This action for allowed closed in accordance with the practice under Exercise 1. 	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-18 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 15 June 2006 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Examine 11) ☐ The oath or declaration is objected to by the Examine 11) ☐ The oath or declaration is objected to by the Examine 11) ☐ The oath or declaration is objected to by the Examine 11) ☐ The oath or declaration is objected to by the Examine 11 ☐ The oath or declaration is objected to by the Examine 11 ☐ The oath or declaration is objected to by the Examine 11 ☐ The oath or declaration is objected to by the Examine 12 ☐ The oath or declaration is objected to by the Examine 12 ☐ The oath or declaration is objected to by the Examine 12 ☐ The oath or declaration is objected to by the Examine 12 ☐ The oath or declaration is objected to by the Examine 12 ☐ The oath or declaration is objected to by the Examine 13 ☐ The oath or declaration is objected to by the Examine 13 ☐ The oath or declaration is objected to by the Examine 14 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐	wn from consideration. r election requirement. r. D⊠ accepted or b) objected to drawing(s) be held in abeyance. See ion is required if the drawing(s) is objected to drawing(s) is objected to drawing(s) is objected to drawing(s) is objected to drawing(s)	ected to. See 37 CFR 1.121(d).			
,—	ammer. Note the attached Office	Action of format 10-132.			
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some color None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6/15/06.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te			

DETAILED ACTION

This communication is in response to the application filed on 12/02/07 in which claims 1 -18 are presented for examination.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 4, 10, 13 are rejected under 35 U.S.C. 102(e) as being anticipated by Owens et al. U.S. PG Pub No. (2003/0039244).

As to claim 1, Owens teaches an Ethernet Digital Subscriber Line Access Multiplexer (DSLAM) for providing dynamic service selection and end-user configuration of service bindings in a digital communication system, said Ethernet DSLAM comprising: means for receiving login credentials and a service request from an end-user device; means for

authenticating the login credentials through an authentication server; means for receiving from the authentication server (Owens, par 0050, 0051). The paragraph shows a point to point protocol Ethernet network using DSLAM to provide a service having a means for receiving a user identifier or passwords through a server for authentication.

Owens show a plurality of attributes for configuring the Ethernet DSLAM to provide a service binding corresponding to the requested service, said attributes including an identification of an access network for the requested service, and an identification of a Permanent Virtual Circuit (PVC) on a local DSL loop associated with the end-user device (par 0005, 0006, 0047). The paragraphs show identifying a user's identification of a local area network and PVC on DSL.

Owens also show means for training a bridging network terminal (NT) having a plurality of PVCs to utilize the identified PVC for sending upstream traffic from the enduser terminal to the Ethernet DSLAM, said training means including means for sending initial downstream traffic from the Ethernet DSLAM to the end-user device utilizing the identified PVC (par 0006, 0012-0017, 0040). The paragraphs show bridging a terminal to PVCs to utilize upstream and downstream traffic.

As to claim 4, Owens conveys the Ethernet DSLAM of claim 1, wherein the means for authenticating includes a RADIUS client that communicates with an external RADIUS authentication server (Owens, par 0047, 0048). The paragraph shows the

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authentication servers use Radius for communication which use shown to separate or as a single server.

As to claim 10, Claim 10 is a claim to a method to carry out the DSLAM of claim 1. Therefore claim 10 is rejected under the same rationale set forth in claim 1.

As to claim 13, Claim 13 is a claim to a method to carry out the DSLAM of claim 4. Therefore claim 13 is rejected under the same rationale set forth in claim 4.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 2, 3, 5-9, 11, 12, 14-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Owens et al. U.S. PG Pub No. (2003/0039244) in view of Holmgren et al. U.S. Patent No. (7,277,442).

As to claim 2, Owens describes the Ethernet DSLAM of claim 1, wherein the end-user device has a Media Access Control (MAC) address (par 0052). Owens show where the device has a MAC address using DSLAM, and Owens fails to show the requested service is accessed through a Service Virtual Local Area Network (S-VLAN), and the Ethernet DSLAM includes means for mapping the S-VLAN for the requested service to the MAC address for the end-user device.

In analogous art Holmgren show the requested service is accessed through a Service Virtual Local Area Network (S-VLAN), and the Ethernet includes means for mapping the S-VLAN for the requested service to the address for the end-user device (Holmgren, col 1, ln 6-9, col 4, ln 39-50, col 5, ln 45-50). It is shown where a service is accessed though an S-VLAN and where the Ethernet network includes mapping a service to an address.

At the time of the invention it would have been obvious to one of ordinary skill in the art to combine the invention it would have been obvious to one of ordinary skill in the art to combine the teachings of Owens and Holmgren because a way of conserving mapping assignments for internetworking Ethernet and ATM networks by mapping VLAN identifiers to PVCs.

As to claim 3, Owens presents the Ethernet DSLAM of claim 1, wherein the means for receiving login credentials and a service request from an end-user device includes an

Ethernet DSLAM (par 0051). The paragraph shows a point to point protocol Ethernet network using DSLAM. Owens fails to show User Virtual Local Area Network (U-VLAN) through which the Ethernet communicates with the end-user device, and the requested service is accessed through a Service Virtual Local Area Network (S-VLAN), and the Ethernet DSLAM includes means for mapping the S-VLAN for the requested service to the U-VLAN for the end- user device.

In an analogous art Holmgren show User Virtual Local Area Network (U-VLAN) through which the Ethernet communicates with the end-user device, and the requested service is accessed through a Service Virtual Local Area Network (S-VLAN), and the Ethernet DSLAM includes means for mapping the S-VLAN for the requested service to the U-VLAN for the end- user device (Holmgren, col 5, In 39-55). The column shows a customer VLAN which the Ethernet communicates with to map SVLAN to the customer VLAN.

At the time of the invention it would have been obvious to one of ordinary skill in the art to combine the invention it would have been obvious to one of ordinary skill in the art to combine the teachings of Owens and Holmgren because a way of conserving mapping assignments for internetworking Ethernet and ATM networks by mapping VLAN identifiers to PVCs.

As to claim 5, Owens illustrates an Ethernet Digital Subscriber Line Access Multiplexer (DSLAM) or providing dynamic service selection and end-user configuration of service

bindings in a digital communication system, said Ethernet DSLAM comprising: a plurality of subscriber ports for receiving login credentials and service requests from end-user devices, and for communicating data traffic to and from the end-user devices, wherein an identified subscriber port communicates with an identified end-user device (Owens, par 0049-0051). The paragraph shows a point to point protocol Ethernet network using DSLAM to provide a service having a means for receiving a user identifier or passwords through a server for authentication.

Owens show a RADIUS client that sends login credentials and a service request from the identified end-user device to an external RADIUS server for authentication and receives from the external RADIUS server, a plurality of attributes for configuring the Ethernet DSLAM to provide a service binding corresponding to the requested service, and an identification of a Permanent Virtual Circuit (PVC) on a local DSL loop associated with the end-user device a Service Selection Controller that receives the attributes from the RADIUS client (par 0005, 0006, 0044, 0049, 0051). From the applicant's specification the service selection controller is located in side the DLSAM. The paragraph shows the authentication servers use Radius for communication and configuring and communicating with an Ethernet DSLAM to provide identification for PVCs on DSL.

Owens fails to show a traffic mapper that maps data traffic between a plurality of Service Virtual Local Area Networks (S-VLANs) and the subscriber ports; said attributes including an identification of an S-VLAN through which the requested service is accessed and sends mapping control information to the traffic mapper, thereby enabling

the traffic mapper to establish a service binding between the identified end-user device and the S- VLAN through which the requested service is accessed.

In an analogous art Holmgren show a traffic mapper that maps data traffic between a plurality of Service Virtual Local Area Networks (S-VLANs) and the subscriber ports; said attributes including an identification of an S-VLAN through which the requested service is accessed and sends mapping control information to the traffic mapper, thereby enabling the traffic mapper to establish a service binding between the identified end-user device and the S- VLAN through which the requested service is accessed (Holmgren, col 1, ln 6-34, col 4, ln 39-50, col 5, ln 45-50). It is shown where a service is accessed though an S-VLAN, which is also shown to communicate through an Ethernet network to access Vans on a per port basis, and it is shown where the Ethernet network includes mapping a service to an address.

At the time of the invention it would have been obvious to one of ordinary skill in the art to combine the invention it would have been obvious to one of ordinary skill in the art to combine the teachings of Owens and Holmgren because a way of conserving mapping assignments for internetworking Ethernet and ATM networks by mapping VLAN identifiers to PVCs.

As to claim 6, Owens and Holmgren define the Ethernet DSLAM of claim 5, wherein the service binding is established utilizing the IEEE802. I x protocol. From applicants specification IEEE802. I x is an integrated part of Windows XP operating system

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(Owens, par 0015). The paragraph shows using Windows operating system.

As to claim 7, Owens and Holmgren create the Ethernet DSLAM of claim 5, wherein the service binding is established utilizing the Point-to-Point Protocol over Ethernet (PPPoE) protocol (Owens, par 0008). It is shown utilizing Point-to-Point Protocol over Ethernet.

As to claim 8, Owens and Holmgren expose the Ethernet DSLAM of claim 5, further comprising a Dynamic Host Configuration Protocol (DHCP) server that answers DHCP requests sent by the identified end-user device prior to establishment of the service binding, said DHCP server sending a temporary configuration and a short lease time to the identified end- user device (par 0019, 0088, 0090). The paragraph shows using a DHCP server establishing a temporary configuration and having a lease time to authenticate a user.

As to claim 9, Owens and Holmgren explain the Ethernet DSLAM of claim 8, wherein the DHCP server ignores DHCP requests sent by the identified end-user device after establishment of the service binding, thereby forcing the end-user device to broadcast a DHCP discover message which is passed on to a second DHCP server in the through

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which the requested service is accessed (Owens, par 0055, 0063, 0065). The paragraphs show sending a broadcast of discover message by a DHCP server.

Owens fails to show using SVLAN. In analogous art Holmgren shows using SVLAN (Holmgren, col 4, In 39-50, col 5, In 45-50). It is shown where a service is accessed though an S-VLAN

At the time of the invention it would have been obvious to one of ordinary skill in the art to combine the invention it would have been obvious to one of ordinary skill in the art to combine the teachings of Owens and Holmgren because a way of conserving mapping assignments for internetworking Ethernet and ATM networks by mapping VLAN identifiers to PVCs.

As to claim 11, Claim 11 is a claim to a method to carry out the DSLAM of claim 2. Therefore claim 11 is rejected under the same rationale set forth in claim 2.

As to claim 12, Claim 12 is a claim to a method to carry out the DSLAM of claim 2. Therefore claim 12 is rejected under the same rationale set forth in claim 2.

As to claim 14, Claim 14 is a claim to a method to carry out the DSLAM of claim 5. Therefore claim 14 is rejected under the same rationale set forth in claim 5.

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As to claim 15, Claim 15 is a claim to a method to carry out the DSLAM of claim 6.

Therefore claim 15 is rejected under the same rationale set forth in claim 6.

As to claim 16, Claim 16 is a claim to a method to carry out the DSLAM of claim 7.

Therefore claim 16 is rejected under the same rationale set forth in claim 7.

As to claim 17, Claim 17 is a claim to a method to carry out the DSLAM of claim 8.

Therefore claim 17 is rejected under the same rationale set forth in claim 8.

As to claim 18, Owens and Holmgren demonstrate the method of claim 14, further comprising the steps of: receiving by the Ethernet DSLAM, a Dynamic Host Configuration Protocol (DHCP) request from the identified end-user device; determining by the Ethernet DSLAM, whether the service binding has been established; upon determining that the service binding has not been established, sending an answer to the end-user device from a DHCP server in the Ethernet DSLAM (Owens, fig 1, par 0019, 0051, 0052, 0074). The paragraphs show using a DSLAM server to serve and receive DHCP request and determining that the service whether or not service has been established.

Owens show wherein the answer includes a temporary configuration and a short lease time; and upon determining that the service binding has been established, ignoring the DHCP request, thereby forcing the end-user device to broadcast a DHCP

discover message which is passed on to a second DHCP server through which the requested service is accessed (par 0019, 0055, 0063, 0065, 0088, 0090). The paragraph shows using a DHCP server establishing a temporary configuration and having a lease time to authenticate a user, and sending a broadcast of discover message by a DHCP server

Owens fails to show using SVLAN. In analogous art Holmgren shows using SVLAN (Holmgren, col 4, In 39-50, col 5, In 45-50). It is shown where a service is accessed though an S-VLAN

At the time of the invention it would have been obvious to one of ordinary skill in the art to combine the invention it would have been obvious to one of ordinary skill in the art to combine the teachings of Owens and Holmgren because a way of conserving mapping assignments for internetworking Ethernet and ATM networks by mapping VLAN identifiers to PVCs.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Harley whose telephone number is (571)270-5435. The examiner can normally be reached on Monday- Friday 7:00 am-4:30pm EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel Ryman can be reached on (571)272-2468. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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JH

/Melanie Jagannathan/ Primary Examiner, Art Unit 2468 Application/Control Number: 10/596,513 Page 14

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